

Inspection Report For Well: UT20736 - 04380

U.S. Environmental Protection Agency
Underground Injection Control Program, 8ENF-T
999 18th Street, Suite 300, Denver, CO 80202-2466

This form was printed on 9/24/2013

INSPECTOR(S): Lead: Roberts, Sarah

Date: 12/10/2013

Others: Ajayi, Christopher

Time: 12:53 am/pm

OPERATOR (only if different): _____

REPRESENTATIVE(S): Chad Steinman

PRE-INSPECTION REVIEW

Petroglyph Operating Company, Inc

Well Name: Ute Tribal 28-06

Well Type: Enhanced Recovery (2R)

Operating Status: AC (ACTIVE) as of 12/31/2002

Oil Field: Antelope Creek (Duchesne)

Location: SENW S28 T5S R3W

Indian Country: X, Uintah and Ouray

Last Inspection: 8/28/2012

Allowable Inj Pressure: 1710 /

Last MIT: Pass 8/21/2011

Annulus Pressure From Last MIT: 1780

BLACK = POSSIBLE VIOLATION

GREY = DATA MISSING

INSPECTION TYPE: (Select One)

☐ Construction / Workover

☐ Response to Complaint

☐ Other

☐ Plugging

☒ Routine

ICIS Entered

☐ Post-Closure

☐ Witness MIT

Date 12/27/13

OBSERVED VALUES:

Initials JS

Tubing Gauge: ☒ Yes
☐ No

Pressure: U: 1269 / L: _____ psig
Gauge Range: 5-2000 psig

Gauge Owner: ☐ EPA
☒ Operator

Annulus Gauge: ☒ Yes
☐ No

Pressure: 0 psig
Gauge Range: opened psig

Gauge Owner: ☒ EPA
☐ Operator

Bradenhead Gauge: ☐ Yes
☐ No

Pressure: _____ psig
Gauge Range: _____ psig

Gauge Owner: ☐ EPA
☐ Operator

Pump Gauge: ☐ Yes
☐ No

Pressure: _____ psig
Gauge Range: _____ psig

Gauge Owner: ☐ EPA
☐ Operator

Operating Status:
(Select One) ☒ Active
☐ Being Reworked

☐ Not Injecting
☐ Production

☐ Plugged and Abandoned
☐ Under Construction

See page 2 for photos, comments, and site conditions.

U2 Entered

Date 12/17/13

Initial JS

TAB	GREEN	BLUE	CBI
		1	

Inspection Report For Well: UT20736 - 04380 (PAGE 2)

PHOTOGRAPHS:

☐ Yes
☒ No

List of photos taken: _____

Comments and site conditions observed during inspection:

GPS: GPS File ID: _____

Signature of EPA Inspector(s):

☐ Data Entry

☐ Compliance Staff

☐ Hard Copy Filing

NOTICE OF INSPECTION



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII, 999 18TH STREET - SUITE 500
DENVER, COLORADO 80202-2405

Date: 12/10/13

Notice of inspection is hereby given according to Section 1445(b) of the Safe Drinking Water Act (42 U.S.C. §300f et seq.).

Hour: 8:00a

Firm Name: Petroglyph Operating, Inc.

Firm Address: Roosevelt, UT, Antelope Creek Oil Field

REASON FOR INSPECTION:

For the purpose of inspecting records, files, papers, processes, controls and facilities, and obtaining samples to determine whether the person subject to an applicable underground injection control program has acted or is acting in compliance with the Safe Drinking Water Act and any applicable condition of permit or rule authorization.

SECTION 1445(b) of the SAFE DRINKING WATER ACT is quoted below:

Section 1445(b)(1): Except as provided in Paragraph (2), the Administrator, or representatives of the Administrator duly designated by him, upon presenting appropriate credentials, and a written notice to any supplier of water or other person subject to (a), or person subject (A) a national primary drinking water regulation prescribed under Section 1412(B) an applicable Underground Injection Control Program, or (C) any requirement to monitor an unregulated contaminant pursuant to subsection (a), or person in charge of any of the property of such supplier or other person referred to in clause (A), (B), or (C), is authorized to enter any establishment, ... facility, or other property of such supplier or other person in order to determine whether such supplier or other person has acted or is acting in compliance with this title, including for this purpose, inspection, at reasonable times, of records, files, papers, processes, controls, and facilities, or in order to test any feature of a public water system, including its raw water source. The Administrator or the Comptroller General (or any representative designated by either) shall have access for the purpose of audit and examination to any records, reports, or information of a grantee which are required to be maintained under subsection (a) or which are pertinent to any financial assistance under this title.

Sarah Roberts

Inspector's Name & Title (Print)

[Signature]
Inspector's Signature



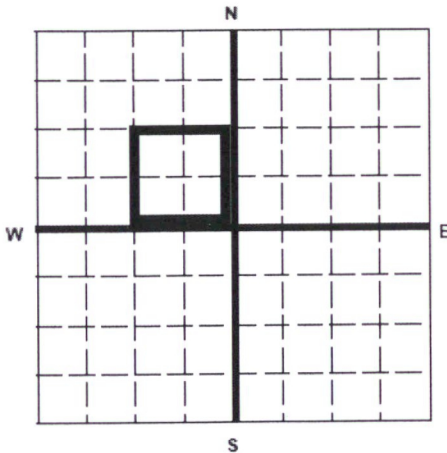
United States Environmental Protection Agency
Washington, DC 20460

ANNUAL DISPOSAL/INJECTION WELL MONITORING REPORT

Name and Address of Existing Permittee
Petroglyph Operating Company, Inc. 2258
P.O. Box 7608
Boise, Idaho 83709

Name and Address of Surface Owner
Ute Indian Tribe
P.O. Box 70
Ft. Duchesne, Utah, 84026

Locate Well and Outline Unit on
Section Plat - 640 Acres



State Utah	County Duchesne	Permit Number UT2736-04380
Surface Location Description 1/4 of 1/4 of SE 1/4 of NW 1/4 of Section 28 Township 5S Range 3W		
Locate well in two directions from nearest lines of quarter section and drilling unit Surface Location 1817 ft. from (N/S) N Line of quarter section and 1897 ft. from (E/W) W Line of quarter section.		
WELL ACTIVITY <input type="checkbox"/> Brine Disposal <input checked="" type="checkbox"/> Enhanced Recovery <input type="checkbox"/> Hydrocarbon Storage	TYPE OF PERMIT <input type="checkbox"/> Individual <input checked="" type="checkbox"/> Area Number of Wells 111	
Lease Name Ute Indian Tribe		Well Number UTE TRIBAL 28-06

		INJECTION PRESSURE		TOTAL VOLUME INJECTED		TUBING -- CASING ANNULUS PRESSURE (OPTIONAL MONITORING)	
MONTH	YEAR	AVERAGE PSIG	MAXIMUM PSIG	BBL	MCF	MINIMUM PSIG	MAXIMUM PSIG
January	16	0	0	0		0	0
February	16	0	0	0		0	0
March	16	41	180	377		0	0
April	16	448	723	3421		0	0
May	16	890	979	6226		0	0
June	16	229	987	1545		0	0
July	16	0	0	0		0	0
August	16	0	0	0		0	0
September	16	0	0	0		0	0
October	16	0	0	0		0	0
November	16	0	0	0		0	0
December	16	0	0	0		0	0

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Chad Stevenson, Water Facilities Supervisor

Signature

Chad Stevenson

Date Signed

03/21/2017

Date 4/5/17
Initial JB

Water Analysis Report

Production Company: PETROGLYPH OPERATING CO INC - EBUS

Sales Rep: James Patry

Well Name: UTE TRIBAL 28-06 INJ, DUCHESNE

Lab Tech: Kaitlyn Natelli

Sample Point: Well Head

Sample Date: 1/6/2017

Scaling potential predicted using ScaleSoftPitzer from
Brine Chemistry Consortium (Rice University)

Sample ID: WA-345320

Sample Specifics		Analysis @ Properties in Sample Specifics			
		Cations	mg/L	Anions	mg/L
Test Date:	1/26/2017	Sodium (Na):	2439.39	Chloride (Cl):	3000.00
System Temperature 1 (°F):	300	Potassium (K):	16.77	Sulfate (SO ₄):	80.00
System Pressure 1 (psig):	2000	Magnesium (Mg):	48.17	Bicarbonate (HCO ₃):	2196.00
System Temperature 2 (°F):	130	Calcium (Ca):	111.79	Carbonate (CO ₃):	
System Pressure 2 (psig):	50	Strontium (Sr):	7.11	Hydroxide (HO):	
Calculated Density (g/ml):	1.0030	Barium (Ba):	23.41	Acetic Acid (CH ₃ COO)	
pH:	8.30	Iron (Fe):	147.55	Propionic Acid (C ₂ H ₅ COO)	
Calculated TDS (mg/L):	8114.55	Zinc (Zn):	12.01	Butanoic Acid (C ₃ H ₇ COO)	
CO ₂ in Gas (%):		Lead (Pb):	0.07	Isobutyric Acid ((CH ₃) ₂ CHCOO)	
Dissolved CO ₂ (mg/L):	0.00	Ammonia (NH ₃):		Fluoride (F):	
H ₂ S in Gas (%):		Manganese (Mn):	1.11	Bromine (Br):	
H ₂ S in Water (mg/L):	40.00	Aluminum (Al):	0.14	Silica (SiO ₂):	31.17
Tot. Suspended Solids (mg/L):		Lithium (Li):	2.86	Calcium Carbonate (CaCO ₃):	
Corrosivity (Langlier Sat. Indx)	0.00	Boron (B):	3.29	Phosphates (PO ₄):	34.45
Alkalinity:		Silicon (Si):	14.57	Oxygen (O ₂):	

Notes:

(PTB = Pounds per Thousand Barrels)

		Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO ₄ ·2H ₂ O		Celestite SrSO ₄		Halite NaCl		Zinc Sulfide	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
130.00	50.00	1.97	91.15	1.60	13.51	5.69	36.25	4.22	107.25	0.00	0.00	0.00	0.00	0.00	0.00	12.11	6.27
149.00	267.00	2.02	92.02	1.50	13.40	5.63	36.25	4.31	107.26	0.00	0.00	0.00	0.00	0.00	0.00	11.85	6.27
168.00	483.00	2.10	93.24	1.43	13.29	5.61	36.25	4.41	107.27	0.00	0.00	0.00	0.00	0.00	0.00	11.63	6.27
187.00	700.00	2.18	94.32	1.37	13.20	5.61	36.25	4.51	107.27	0.00	0.00	0.00	0.00	0.00	0.00	11.44	6.27
206.00	917.00	2.28	95.21	1.33	13.13	5.63	36.25	4.60	107.28	0.00	0.00	0.00	0.00	0.00	0.00	11.28	6.27
224.00	1133.00	2.39	95.91	1.30	13.08	5.67	36.25	4.69	107.28	0.00	0.00	0.00	0.00	0.00	0.00	11.14	6.27
243.00	1350.00	2.50	96.46	1.28	13.05	5.73	36.25	4.78	107.28	0.00	0.00	0.00	0.00	0.00	0.00	11.02	6.27
262.00	1567.00	2.62	96.87	1.28	13.04	5.80	36.25	4.86	107.28	0.00	0.00	0.00	0.00	0.00	0.00	10.92	6.27
281.00	1783.00	2.74	97.17	1.28	13.05	5.89	36.25	4.93	107.28	0.00	0.00	0.00	0.00	0.00	0.00	10.83	6.27
300.00	2000.00	2.87	97.38	1.30	13.07	5.98	36.25	5.00	107.29	0.00	0.00	0.00	0.00	0.00	0.00	10.76	6.27

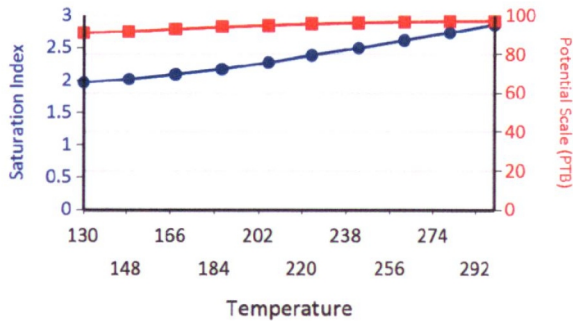
Water Analysis Report

Temp (°F)	PSI	Hemihydrate CaSO ₄ ~0.5H ₂ O		Anhydrate CaSO ₄		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
130.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00	2.74	8.06	11.59	0.03	4.83	45.63	2.83	28.08	14.35	72.30
149.00	267.00	0.00	0.00	0.00	0.00	0.00	0.00	2.95	8.07	11.15	0.03	5.57	52.64	3.23	31.37	14.81	72.30
168.00	483.00	0.00	0.00	0.00	0.00	0.00	0.00	3.14	8.07	10.77	0.03	6.36	60.87	3.67	34.98	15.34	72.31
187.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	3.32	8.07	10.43	0.03	7.15	68.07	4.12	37.78	15.89	72.31
206.00	917.00	0.00	0.00	0.00	0.00	0.00	0.00	3.49	8.07	10.14	0.03	7.94	73.66	4.57	39.67	16.45	72.31
224.00	1133.00	0.00	0.00	0.00	0.00	0.00	0.00	3.64	8.07	9.87	0.03	8.71	77.41	5.02	40.81	17.02	72.31
243.00	1350.00	0.00	0.00	0.00	0.00	0.00	0.00	3.77	8.07	9.64	0.03	9.47	79.47	5.47	41.44	17.59	72.31
262.00	1567.00	0.00	0.00	0.00	0.00	0.00	0.00	3.89	8.08	9.44	0.03	10.20	80.36	5.90	41.77	18.15	72.31
281.00	1783.00	0.00	0.00	0.00	0.00	0.00	0.00	3.99	8.08	9.26	0.03	10.91	80.69	6.33	41.94	18.71	72.31
300.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	4.07	8.08	9.09	0.03	11.60	80.79	6.74	42.03	19.25	72.31

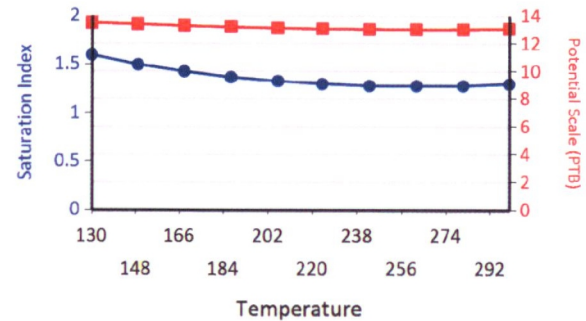
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Lead Sulfide Mg Silicate Ca Mg Silicate Fe Silicate

These scales have positive scaling potential under final temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Lead Sulfide Mg Silicate Ca Mg Silicate Fe Silicate

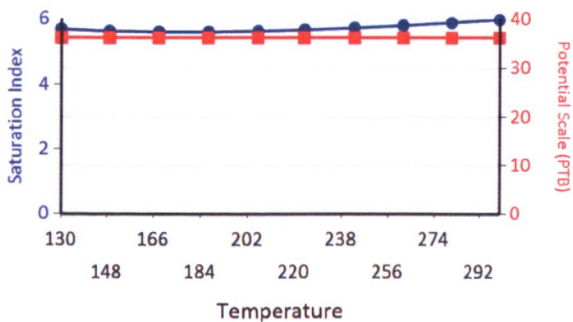
Calcium Carbonate



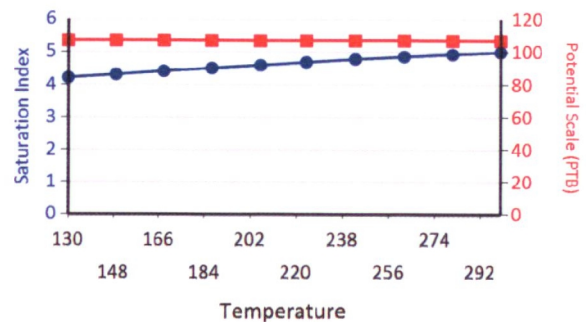
Barium Sulfate



Iron Sulfide

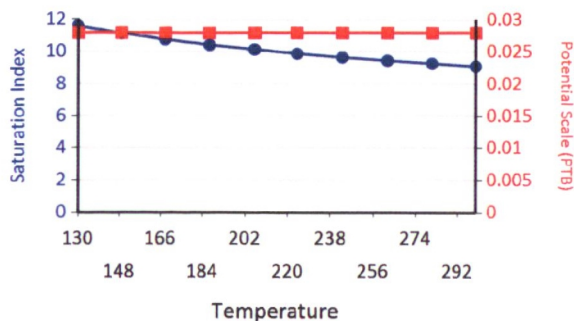


Iron Carbonate

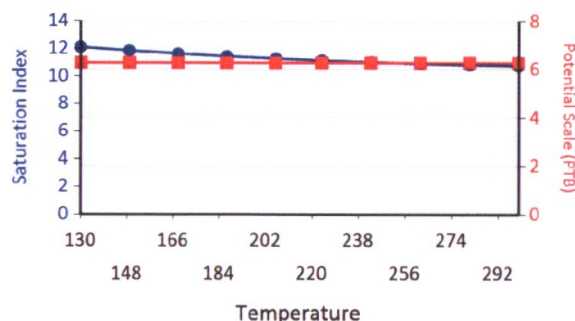


Water Analysis Report

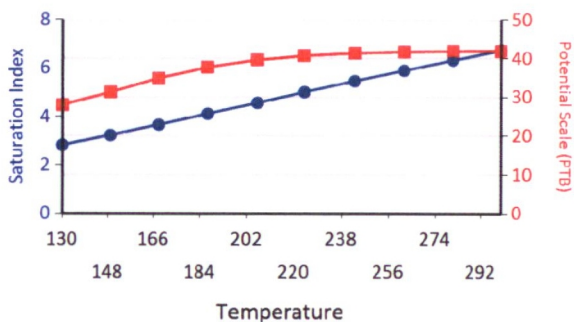
Lead Sulfide



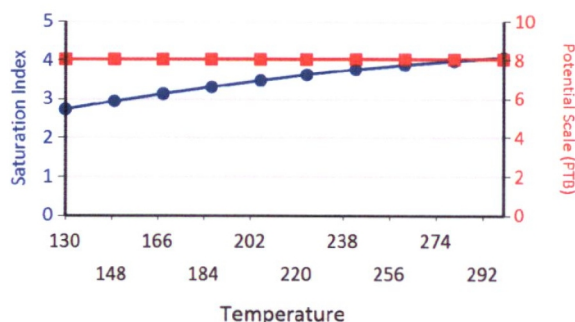
Zinc Sulfide



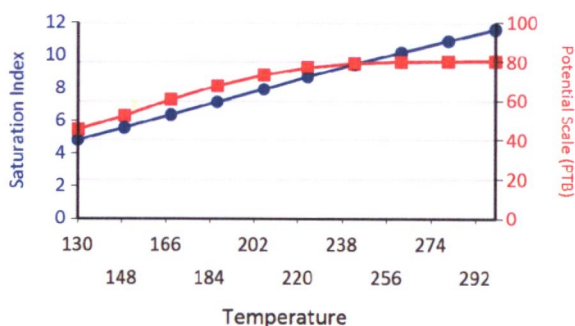
Ca Mg Silicate



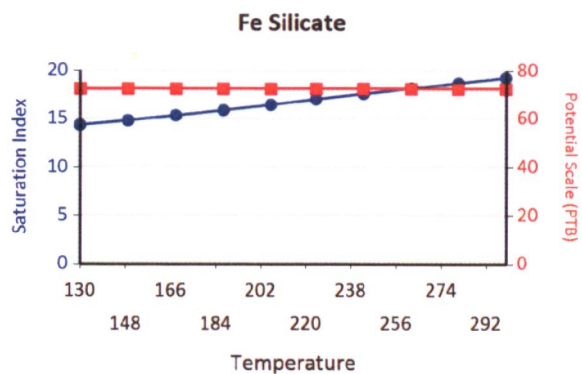
Zinc Carbonate



Mg Silicate



Water Analysis Report





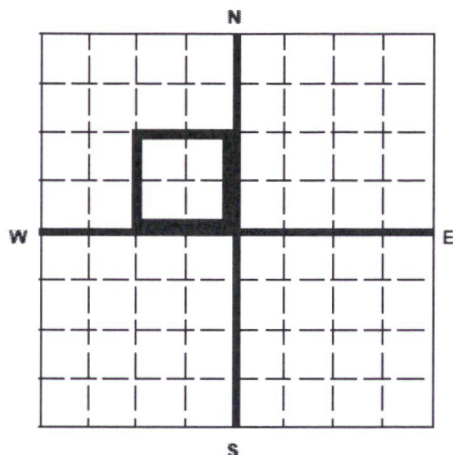
United States Environmental Protection Agency
Washington, DC 20460

ANNUAL DISPOSAL/INJECTION WELL MONITORING REPORT

Name and Address of Existing Permittee
Petroglyph Operating Company, Inc. 2258
P.O. Box 7608
Boise, Idaho 83709

Name and Address of Surface Owner
Ute Indian Tribe
P.O. Box 70
Ft. Duchesne, Utah, 84026

Locate Well and Outline Unit on
Section Plat - 640 Acres



State
Utah

County
Duchesne

Permit Number
UT2736-04434 04380

Surface Location Description

1/4 of 1/4 of SE 1/4 of NW 1/4 of Section 28 Township 5S Range 3W

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 1817 ft. from (N/S) N Line of quarter section
and 1897 ft. from (E/W) W Line of quarter section.

U2 Entered

WELL ACTIVITY

- ☐ Brine Disposal
☒ Enhanced Recovery
☐ Hydrocarbon Storage

TYPE OF PERMIT

- ☐ Individual
☒ Area

Date 3/2/16

Initial JB

Number of Wells 111

Lease Name Ute Indian Tribe

Well Number UTE TRIBAL 28-06

INJECTION PRESSURE

TOTAL VOLUME INJECTED

TUBING - CASING ANNULUS PRESSURE (OPTIONAL MONITORING)

MONTH	YEAR	AVERAGE PSIG	MAXIMUM PSIG	BBL	MCF	MINIMUM PSIG	MAXIMUM PSIG
January	15	1099	1164	4157		0	0
February	15	1134	1197	3775		0	0
March	15	1089	1248	4651		0	0
April	15	1105	1160	4348		0	0
May	15	1186	1197	4942		0	0
June	15	364	1221	973		0	0
July	15	6	33	0		0	0
August	15	0	0	0		0	0
September	15	0	0	0		0	0
October	15	2	6	0		0	0
November	15	4	7	0		0	0
December	15	0	1	0		0	0

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

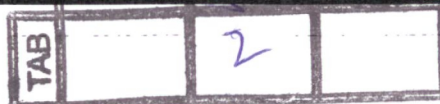
Chad Stevenson, Water Facilities Supervisor

Signature

Chad Stevenson

Date Signed

02/08/2016



Units of Measurement: **Standard**

Water Analysis Report

Production Company: **PETROGLYPH OPERATING CO INC - EBUS**Sales Rep: **James Patry**Well Name: **UTE TRIBAL 28-06 INJ, DUCHESNE**Lab Tech: **Michele Pike**Sample Point: **Well Head**Sample Date: **1/6/2016**Scaling potential predicted using ScaleSoftPitzer from
Brine Chemistry Consortium (Rice University)Sample ID: **WA-327656**

Sample Specifics		Analysis @ Properties in Sample Specifics			
		Cations		Anions	
		mg/L		mg/L	
Test Date:	1/13/2016	Sodium (Na):	3155.27	Chloride (Cl):	5000.00
System Temperature 1 (°F):	60	Potassium (K):	22.80	Sulfate (SO ₄):	150.00
System Pressure 1 (psig):	2000	Magnesium (Mg):	41.99	Bicarbonate (HCO ₃):	296.00
System Temperature 2 (°F):	180	Calcium (Ca):	128.15	Carbonate (CO ₃):	
System Pressure 2 (psig):	50	Strontium (Sr):	5.78	Acetic Acid (CH ₃ COO)	
Calculated Density (g/ml):	1.0034	Barium (Ba):	3.72	Propionic Acid (C ₂ H ₅ COO)	
pH:	8.50	Iron (Fe):	17.63	Butanoic Acid (C ₃ H ₇ COO)	
Calculated TDS (mg/L):	8865.64	Zinc (Zn):	15.91	Isobutyric Acid ((CH ₃) ₂ CHCOO)	
CO ₂ in Gas (%):		Lead (Pb):	0.42	Fluoride (F):	
Dissolved CO ₂ (mg/L):	0.00	Ammonia NH ₃ :		Bromine (Br):	
H ₂ S in Gas (%):		Manganese (Mn):	0.48	Silica (SiO ₂):	27.49
H ₂ S in Water (mg/L):	25.00	Aluminum (Al):	2.30	Calcium Carbonate (CaCO ₃):	
Tot. Suspended Solids (mg/L):		Lithium (Li):	1.33	Phosphates (PO ₄):	18.99
Corrosivity (Langlier Sat. Indx)	0.00	Boron (B):	4.83	Oxygen (O ₂):	
Alkalinity:		Silicon (Si):	12.85		

Notes:

(PTB = Pounds per Thousand Barrels)

		Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO ₄ ·2H ₂ O		Celestite SrSO ₄		Halite NaCl		Zinc Sulfide	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
180.00	50.00	1.32	26.23	0.86	1.91	4.32	9.72	2.45	12.66	0.00	0.00	0.00	0.00	0.00	0.00	11.46	8.31
167.00	267.00	1.26	22.85	0.89	1.92	4.33	9.72	2.37	12.60	0.00	0.00	0.00	0.00	0.00	0.00	11.60	8.31
153.00	483.00	1.21	20.80	0.92	1.95	4.36	9.72	2.30	12.55	0.00	0.00	0.00	0.00	0.00	0.00	11.76	8.31
140.00	700.00	1.16	19.03	0.96	1.97	4.39	9.72	2.22	12.48	0.00	0.00	0.00	0.00	0.00	0.00	11.94	8.31
127.00	917.00	1.12	17.51	1.02	2.00	4.44	9.72	2.15	12.40	0.00	0.00	0.00	0.00	0.00	0.00	12.13	8.31
113.00	1133.00	1.08	16.25	1.09	2.03	4.50	9.72	2.08	12.31	0.00	0.00	0.00	0.00	0.00	0.00	12.35	8.31
100.00	1350.00	1.04	15.23	1.17	2.06	4.58	9.72	2.00	12.19	0.00	0.00	0.00	0.00	0.00	0.00	12.57	8.31
87.00	1567.00	1.01	14.42	1.26	2.09	4.67	9.72	1.92	12.07	0.00	0.00	0.00	0.00	0.00	0.00	12.82	8.31
73.00	1783.00	0.98	13.82	1.37	2.12	4.78	9.73	1.85	11.93	0.00	0.00	0.00	0.00	0.00	0.00	13.09	8.31
60.00	2000.00	0.96	13.41	1.50	2.15	4.91	9.73	1.77	11.78	0.00	0.00	0.00	0.00	0.00	0.00	13.38	8.31

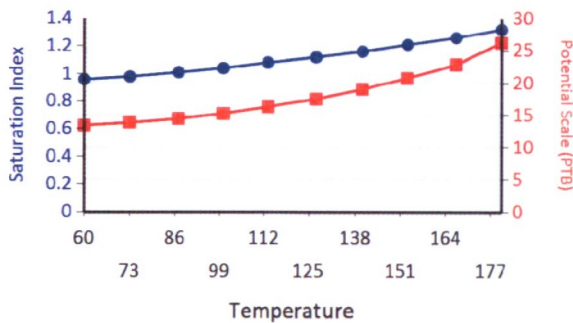
Water Analysis Report

Temp (°F)	PSI	Hemihydrate CaSO ₄ ~0.5H ₂ O		Anhydrate CaSO ₄		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
180.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00	2.45	10.60	11.16	0.17	6.84	20.20	4.07	13.06	12.50	13.65
167.00	267.00	0.00	0.00	0.00	0.00	0.00	0.00	2.32	10.55	11.40	0.17	6.33	15.98	3.78	10.55	12.16	13.60
153.00	483.00	0.00	0.00	0.00	0.00	0.00	0.00	2.19	10.49	11.68	0.17	5.87	13.50	3.52	9.10	11.86	13.54
140.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	2.05	10.41	11.98	0.17	5.39	11.46	3.25	7.89	11.57	13.46
127.00	917.00	0.00	0.00	0.00	0.00	0.00	0.00	1.90	10.28	12.30	0.17	4.91	9.78	2.99	6.88	11.28	13.35
113.00	1133.00	0.00	0.00	0.00	0.00	0.00	0.00	1.74	10.09	12.65	0.17	4.42	8.40	2.72	6.04	10.99	13.20
100.00	1350.00	0.00	0.00	0.00	0.00	0.00	0.00	1.57	9.80	13.02	0.17	3.92	7.25	2.45	5.33	10.71	13.01
87.00	1567.00	0.00	0.00	0.00	0.00	0.00	0.00	1.38	9.38	13.43	0.17	3.42	6.26	2.18	4.71	10.42	12.80
73.00	1783.00	0.00	0.00	0.00	0.00	0.00	0.00	1.19	8.77	13.87	0.17	2.90	5.37	1.91	4.15	10.14	12.55
60.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.98	7.92	14.34	0.17	2.38	4.53	1.64	3.64	9.87	12.30

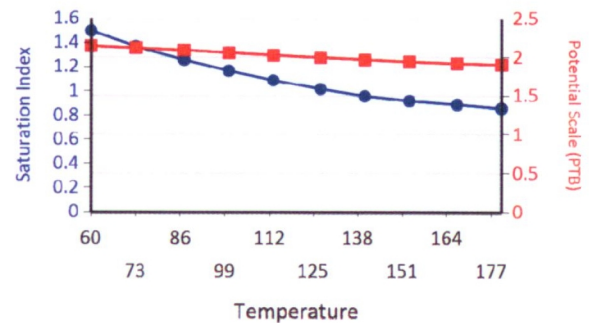
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Lead Sulfide Mg Silicate Ca Mg Silicate Fe Silicate

These scales have positive scaling potential under final temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Lead Sulfide Mg Silicate Ca Mg Silicate Fe Silicate

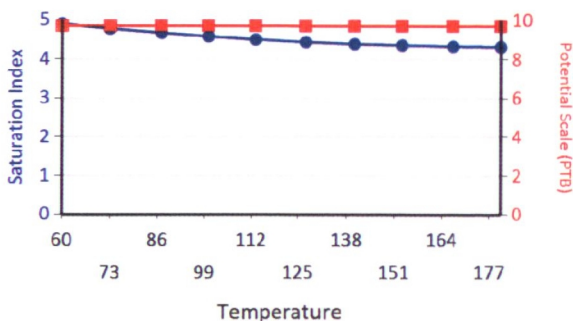
Calcium Carbonate



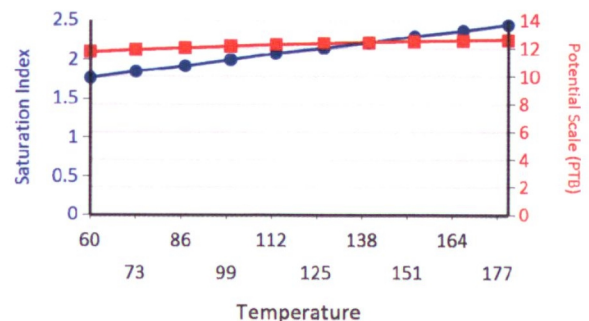
Barium Sulfate



Iron Sulfide

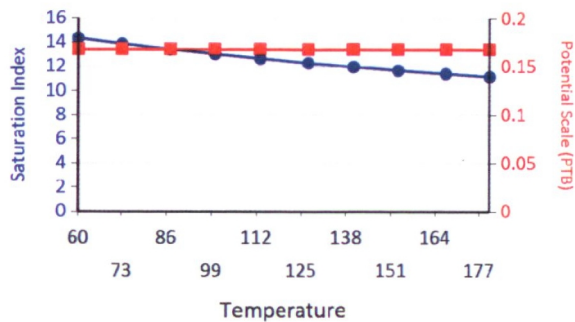


Iron Carbonate

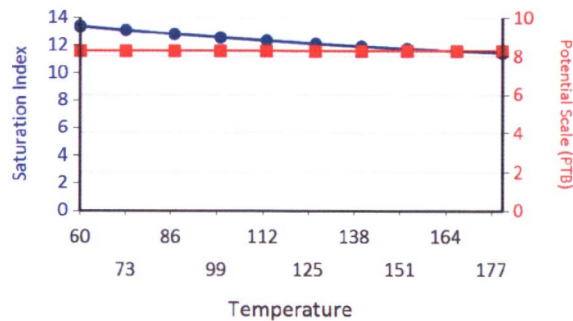


Water Analysis Report

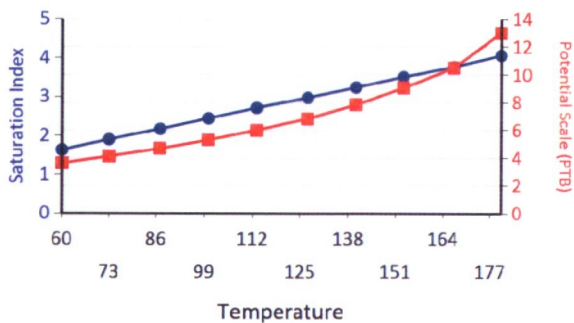
Lead Sulfide



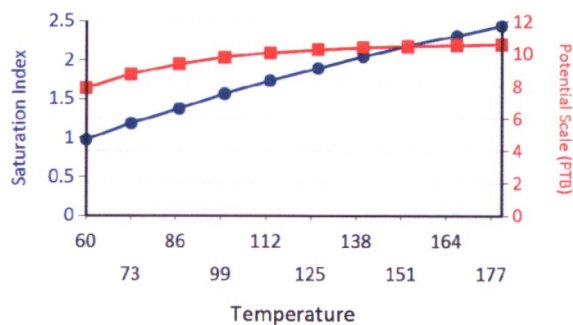
Zinc Sulfide



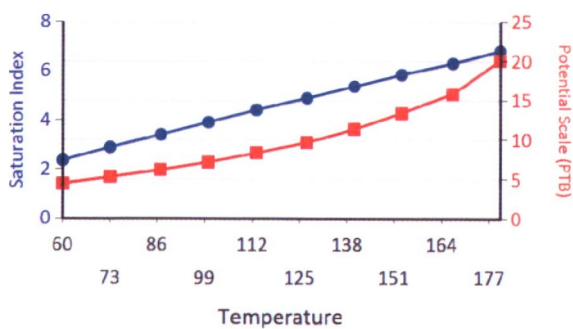
Ca Mg Silicate



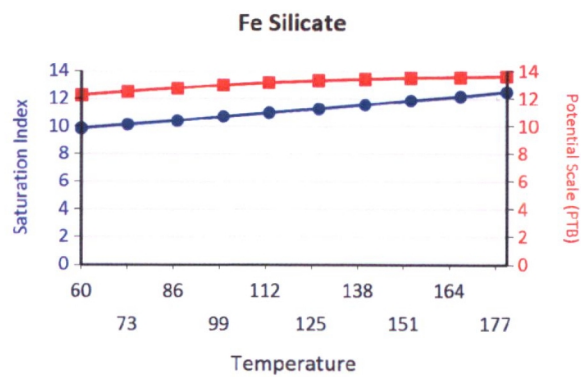
Zinc Carbonate



Mg Silicate



Water Analysis Report





RECEIVED

SEP 07 2016

Office of Enforcement, Compliance
and Environmental Justice (UFO)

August 25, 2016

Gary Wang
Mail Code: 8ENF-UFO
US EPA Region 8
1595 Wyncoop Street
Denver, CO 80202-1129

RE: 5-year Mechanical Integrity Test
Ute Tribal 28-06

Mr. Wang:

Please find enclosed the 5-year Mechanical Integrity Test for the Ute Tribal 28-06.

If any questions, please reach me at (208) 685-9711.

Best Regards,

Nicole Colby
Manager, Land & Regulatory Compliance

U2 Entered

Date 10/05/16

Initial NV

	GREEN	BLUE	CBI
TAB		2	

PETROGLYPH OPERATING COMPANY, INC.

Mechanical Integrity Test Tubing/Casing Annulus Pressure Test

U.S. Environmental Protection Agency
Underground Injection Control Program
1595 Wynkoop Street, Denver, CO 80202

EPA Witness: _____ Date: 8, 22, 16
Test conducted by: CHAD STEVENSON
Others present: _____

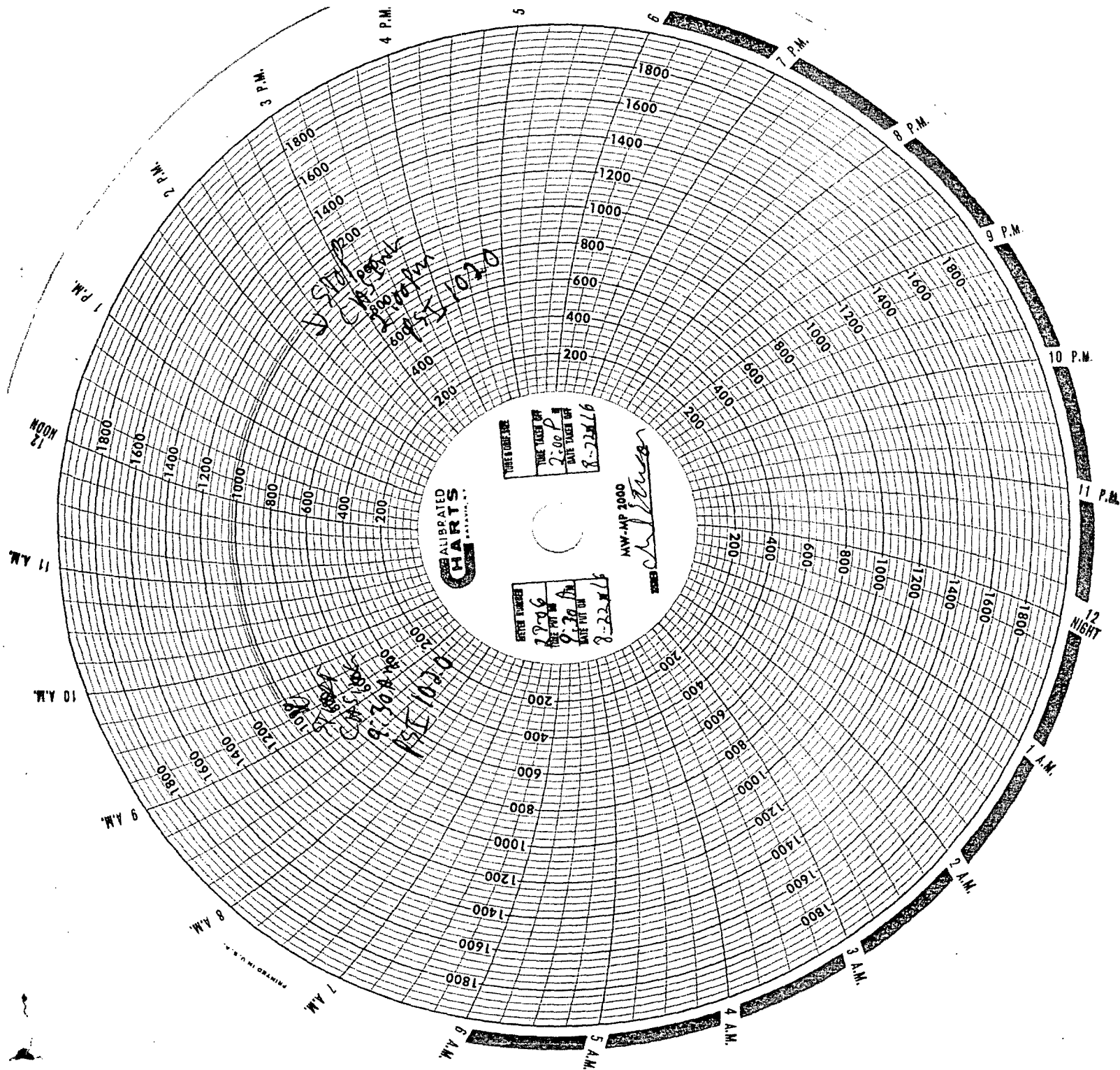
Well Name: <u>28-06</u>	Type: ER SWD	Status: AC TA UC
Field: <u>ANTELOPE CREEK</u>		
Location: <u>28-06</u>	Sec: _____ T _____ N/S R _____ E/W	County: <u>DUCHESNE</u> State: <u>UT</u>
Operator: <u>PETROGLYPH ENERGY</u>		
Last MIT: <u>1</u>	Maximum Allowable Pressure: _____	PSIG

Regularly scheduled test? ☒ Yes ☐ No
Initial test for permit? ☐ Yes ☐ No
Test after well rework? ☐ Yes ☐ No

Well injecting during test? If Yes, rate: _____ bpd
Pre-test annulus pressure: _____ psig

MIT DATA TABLE	Test #1	Test #2	Test #3
TUBING	PRESSURE RECORD		
Initial Pressure	0 psig	psig	psig
End of test pressure	0 psig	psig	psig
CASING / TUBING ANNULUS	PRESSURE RECORD		
0 minutes	1020 psig	psig	psig
5 minutes	1020 psig	psig	psig
10 minutes	1020 psig	psig	psig
15 minutes	1020 psig	psig	psig
20 minutes	1020 psig	psig	psig
25 minutes	1020 psig	psig	psig
30 minutes	1020 psig	psig	psig
4 1/2 hours	1020 psig	psig	psig
_____ minutes	psig	psig	psig
RESULT	[] Pass [] Fail	[] Pass [] Fail	[] Pass [] Fail

Does the annulus pressure build back up after the test? If Yes, _____ psig.





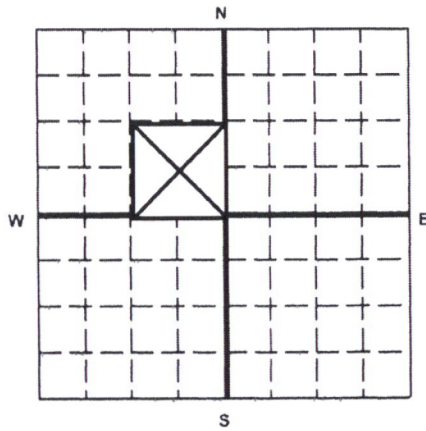
United States Environmental Protection Agency
Washington, DC 20460

ANNUAL DISPOSAL/INJECTION WELL MONITORING REPORT

Name and Address of Existing Permittee
Petroglyph Operating Company, Inc. 2258
P.O. Box 7608
Boise, Idaho 83709

Name and Address of Surface Owner
Ute Indian Tribe
P.O. Box 70
Ft. Duchesne, Utah 84026

Locate Well and Outline Unit on
Section Plat - 640 Acres



State
Utah

County
Duchesne

Permit Number
UT2736-04380

Surface Location Description

1/4 of 1/4 of SE 1/4 of NW 1/4 of Section 28 Township 5S Range 3W

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 1817 ft. from (N/S) N Line of quarter section
and 1897 ft. from (E/W) W Line of quarter section.

WELL ACTIVITY

- ☐ Brine Disposal
☒ Enhanced Recovery
☐ Hydrocarbon Storage

TYPE OF PERMIT

- ☐ Individual
☒ Area

Number of Wells 111

Lease Name Ute Indian Tribe

Well Number UTE TRIBAL 28-06

		INJECTION PRESSURE		TOTAL VOLUME INJECTED		TUBING -- CASING ANNULUS PRESSURE (OPTIONAL MONITORING)	
MONTH	YEAR	AVERAGE PSIG	MAXIMUM PSIG	BBL	MCF	MINIMUM PSIG	MAXIMUM PSIG
January	14	960	1073	3499		0	0
February	14	1094	1126	3667		0	0
March	14	1074	1136	4513		0	0
April	14	1084	1099	3822		0	0
May	14	1115	1109	4429		0	0
June	14	1127	1215	4083		0	0
July	14	1105	1158	3965		0	0
August	14	1184	1204	4530		0	0
September	14	1154	1201	3955		0	0
October	14	1168	1230	4541		0	0
November	14	1222	1241	4500		0	0
December	14	1204	1219	4797		0	0

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Chad Stevenson, Water Facilities Supervisor

Signature

Date Signed

2/10/2015

U2 Entered

Date

2/11/15

Initial

GW

	GREEN	BLUE	CBI
TAB		2	

Multi-Chem Analytical Laboratory

1553 East Highway 40

Vernal, UT 84078

Units of Measurement: Standard

multi-chem®

A HALLIBURTON SERVICE

Water Analysis Report

Production Company: PETROGLYPH OPERATING CO INC - EBUS

Well Name: UTE TRIBAL 28-06 INJ, DUCHESNE

Sample Point: WELLHEAD

Sample Date: 1/7/2015

Sample ID: WA-297476

Sales Rep: James Patry

Lab Tech: Gary Winegar

Scaling potential predicted using ScaleSoftPitzer from
Brine Chemistry Consortium (Rice University)

Sample Specifics		Analysis @ Properties in Sample Specifics			
Test Date:	1/14/2015	Cations	mg/L	Anions	mg/L
System Temperature 1 (°F):	160	Sodium (Na):	3309.64	Chloride (Cl):	5000.00
System Pressure 1 (psig):	1300	Potassium (K):	52.76	Sulfate (SO ₄):	281.00
System Temperature 2 (°F):	80	Magnesium (Mg):	9.82	Bicarbonate (HCO ₃):	3416.00
System Pressure 2 (psig):	15	Calcium (Ca):	19.76	Carbonate (CO ₃):	
Calculated Density (g/ml):	1.0052	Strontium (Sr):	4.88	Acetic Acid (CH ₃ COO)	
pH:	8.50	Barium (Ba):	4.07	Propionic Acid (C ₂ H ₅ COO)	
Calculated TDS (mg/L):	12114.80	Iron (Fe):	0.43	Butanoic Acid (C ₃ H ₇ COO)	
CO ₂ in Gas (%):		Zinc (Zn):	1.37	Isobutyric Acid ((CH ₃) ₂ CHCOO)	
Dissolved CO ₂ (mg/L):	0.00	Lead (Pb):	0.00	Fluoride (F):	
H ₂ S in Gas (%):		Ammonia NH ₃ :		Bromine (Br):	
H ₂ S in Water (mg/L):	15.00	Manganese (Mn):	0.07	Silica (SiO ₂):	15.00

Notes:

B=7.66 Al=.02 Li=1.42

(PTB = Pounds per Thousand Barrels)

		Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO ₄ ·2H ₂ O		Celestite SrSO ₄		Halite NaCl		Zinc Sulfide	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
80.00	14.00	1.50	16.64	1.66	2.37	3.25	0.24	1.81	0.31	0.00	0.00	0.00	0.00	0.00	0.00	11.72	0.72
88.00	157.00	1.50	16.64	1.57	2.36	3.17	0.24	1.85	0.31	0.00	0.00	0.00	0.00	0.00	0.00	11.53	0.72
97.00	300.00	1.52	16.66	1.49	2.34	3.10	0.24	1.89	0.31	0.00	0.00	0.00	0.00	0.00	0.00	11.36	0.72
106.00	443.00	1.53	16.68	1.42	2.33	3.05	0.24	1.93	0.31	0.00	0.00	0.00	0.00	0.00	0.00	11.21	0.72
115.00	585.00	1.55	16.71	1.36	2.32	3.00	0.24	1.98	0.31	0.00	0.00	0.00	0.00	0.00	0.00	11.06	0.72
124.00	728.00	1.57	16.73	1.30	2.30	2.96	0.24	2.02	0.31	0.00	0.00	0.00	0.00	0.00	0.00	10.92	0.72
133.00	871.00	1.59	16.76	1.24	2.29	2.93	0.24	2.06	0.31	0.00	0.00	0.00	0.00	0.00	0.00	10.80	0.72
142.00	1014.00	1.61	16.79	1.20	2.27	2.91	0.24	2.10	0.31	0.00	0.00	0.00	0.00	0.00	0.00	10.67	0.72
151.00	1157.00	1.64	16.82	1.15	2.25	2.89	0.24	2.13	0.31	0.00	0.00	0.00	0.00	0.00	0.00	10.56	0.72
160.00	1300.00	1.66	16.85	1.11	2.24	2.88	0.24	2.17	0.31	0.00	0.00	0.00	0.00	0.00	0.00	10.46	0.72

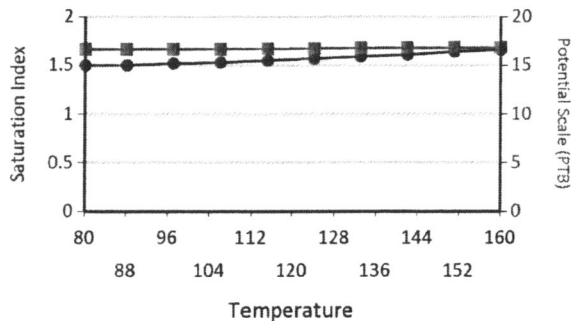
		Hemihydrate CaSO ₄ ·0.5H ₂ O		Anhydrate CaSO ₄		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
80.00	14.00	0.00	0.00	0.00	0.00	0.00	0.00	1.44	0.89	0.00	0.00	0.54	3.70	0.00	0.00	5.58	0.33
88.00	157.00	0.00	0.00	0.00	0.00	0.00	0.00	1.55	0.89	0.00	0.00	0.84	5.29	0.00	0.00	5.71	0.33
97.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	1.67	0.90	0.00	0.00	1.20	7.05	0.14	1.42	5.91	0.33
106.00	443.00	0.00	0.00	0.00	0.00	0.00	0.00	1.78	0.90	0.00	0.00	1.57	8.65	0.34	2.56	6.11	0.33
115.00	585.00	0.00	0.00	0.00	0.00	0.00	0.00	1.89	0.91	0.00	0.00	1.94	10.09	0.53	3.60	6.33	0.33
124.00	728.00	0.00	0.00	0.00	0.00	0.00	0.00	1.99	0.91	0.00	0.00	2.32	11.37	0.74	4.54	6.55	0.33
133.00	871.00	0.00	0.00	0.00	0.00	0.00	0.00	2.09	0.91	0.00	0.00	2.70	12.50	0.94	5.38	6.78	0.33
142.00	1014.00	0.00	0.00	0.00	0.00	0.00	0.00	2.19	0.91	0.00	0.00	3.08	13.48	1.15	6.12	7.02	0.33
151.00	1157.00	0.00	0.00	0.00	0.00	0.00	0.00	2.28	0.91	0.00	0.00	3.46	14.33	1.36	6.75	7.27	0.33
160.00	1300.00	0.00	0.00	0.00	0.00	0.00	0.00	2.37	0.92	0.00	0.00	3.84	15.06	1.57	7.29	7.51	0.33

Water Analysis Report

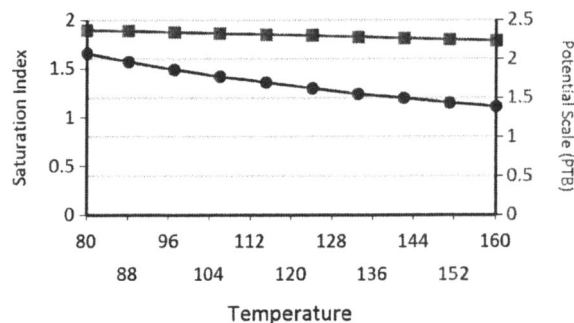
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Mg Silicate Fe Silicate

These scales have positive scaling potential under final temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Mg Silicate Ca Mg Silicate Fe Silicate

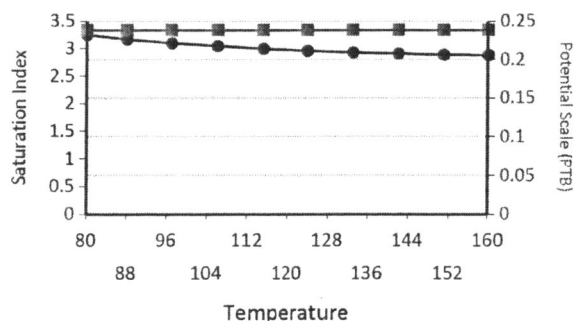
Calcium Carbonate



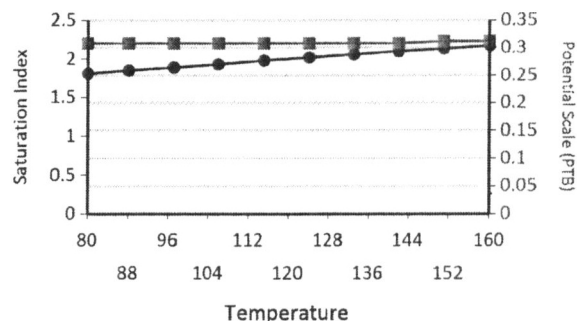
Barium Sulfate



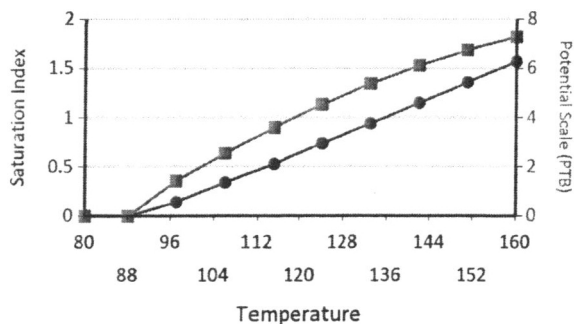
Iron Sulfide



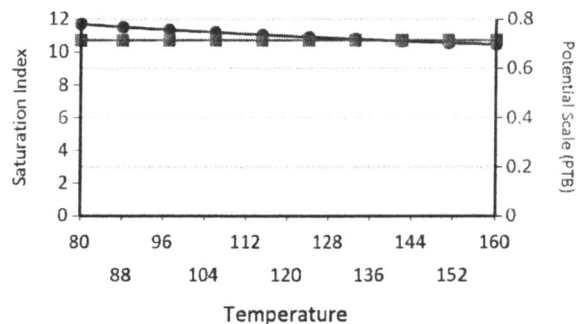
Iron Carbonate



Ca Mg Silicate

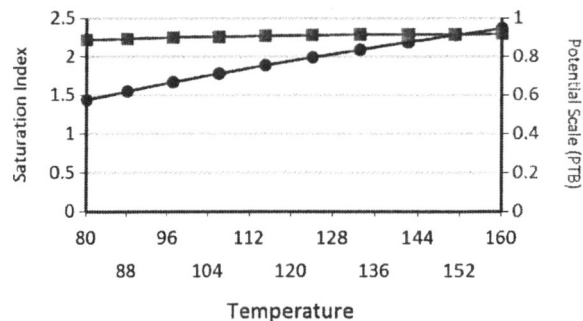


Zinc Sulfide

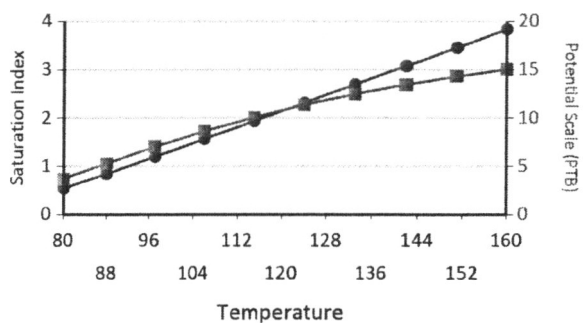


Water Analysis Report

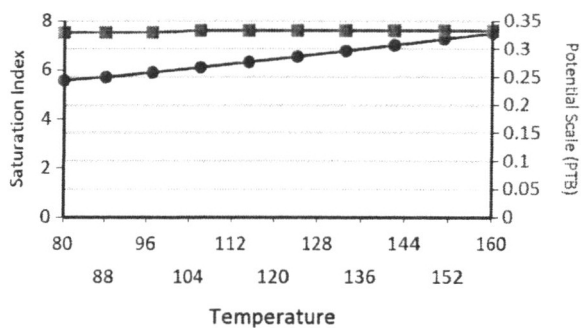
Zinc Carbonate



Mg Silicate



Fe Silicate





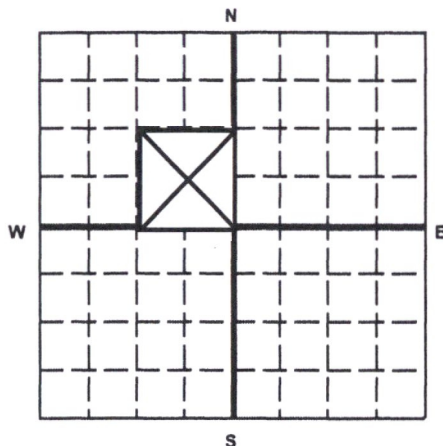
United States Environmental Protection Agency
Washington, DC 20460

ANNUAL DISPOSAL/INJECTION WELL MONITORING REPORT

Name and Address of Existing Permittee
Petroglyph Operating Company, Inc. 2258
P.O. Box 7608
Boise, Idaho 83709

Name and Address of Surface Owner
Ute Indian Tribe
P.O. Box 70
Ft. Duchesne, Utah 84026

Locate Well and Outline Unit on
Section Plat - 640 Acres



State Utah County Duchesne Permit Number UT2736-04380

Surface Location Description

1/4 of 1/4 of SE 1/4 of NW 1/4 of Section 28 Township 5S Range 3W

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 1817 ft. from (N/S) N Line of quarter section
and 1897 ft. from (E/W) W Line of quarter section.

WELL ACTIVITY

- ☐ Brine Disposal
☒ Enhanced Recovery
☐ Hydrocarbon Storage

TYPE OF PERMIT

- ☐ Individual
☒ Area

Number of Wells 111

Lease Name Ute Indian Tribe

Well Number UTE TRIBAL 28-06

		INJECTION PRESSURE		TOTAL VOLUME INJECTED		TUBING -- CASING ANNULUS PRESSURE (OPTIONAL MONITORING)	
MONTH	YEAR	AVERAGE PSIG	MAXIMUM PSIG	BBL	MCF	MINIMUM PSIG	MAXIMUM PSIG
January	13	1466	1525	1976		0	0
February	13	1556	1594	2387		0	0
March	13	1571	1574	2285		0	0
April	13	1596	1564	2138		0	0
May	13	1551	1564	2065		0	0
June	13	1381	1564	2048		0	0
July	13	1394	1564	2726		0	0
August	13	851	1387	2125		0	0
September	13	30	48	0		0	0
October	13	2	6	0		0	0
November	13	454	1338	1794		0	0
December	13	1163	1638	2926		0	0

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Chad Stevenson, Water Facilities Supervisor

Signature

[Signature]

Date Signed

2/11/2014

Date 3/21/14
Initial JS

Multi-Chem Analytical Laboratory

1553 East Highway 40

Vernal, UT 84078

multi-chem®

A HALLIBURTON SERVICE

Units of Measurement: Standard

Water Analysis Report

Production Company: PETROGLYPH ENERGY INC

Well Name: UTE TRIBAL 28-06 INJ

Sample Point: Wellhead

Sample Date: 1/8/2014

Sample ID: WA-262994

Sales Rep: James Patry

Lab Tech: Gary Winegar

Scaling potential predicted using ScaleSoftPitzer from
Brine Chemistry Consortium (Rice University)

Sample Specifics		Analysis @ Properties in Sample Specifics			
Test Date: 1/15/2014		Cations	mg/L	Anions	mg/L
System Temperature 1 (°F):	180	Sodium (Na):	3450.95	Chloride (Cl):	5000.00
System Pressure 1 (psig):	1300	Potassium (K):	78.00	Sulfate (SO4):	193.00
System Temperature 2 (°F):	60	Magnesium (Mg):	23.00	Bicarbonate (HCO3):	732.00
System Pressure 2 (psig):	15	Calcium (Ca):	55.00	Carbonate (CO3):	
Calculated Density (g/ml):	1.004	Strontium (Sr):	5.00	Acetic Acid (CH3COO)	
pH:	7.00	Barium (Ba):	3.00	Propionic Acid (C2H5COO)	
Calculated TDS (mg/L):	9567.68	Iron (Fe):	3.70	Butanoic Acid (C3H7COO)	
CO2 in Gas (%):		Zinc (Zn):	0.30	Isobutyric Acid ((CH3)2CHCOO)	
Dissolved CO2 (mg/L):	0.00	Lead (Pb):	0.00	Fluoride (F):	
H2S in Gas (%):		Ammonia NH3:		Bromine (Br):	
H2S in Water (mg/L):	1.00	Manganese (Mn):	0.20	Silica (SiO2):	23.54

Notes:

B=5 Al=0 Li=1.2

(PTB = Pounds per Thousand Barrels)

		Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO4·2H2O		Celestite SrSO4		Halite NaCl		Zinc Sulfide	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
60.00	14.00	0.00	0.00	1.63	1.75	1.18	0.82	0.24	1.09	0.00	0.00	0.00	0.00	0.00	0.00	8.53	0.16
73.00	157.00	0.00	0.00	1.49	1.73	1.01	0.78	0.27	1.21	0.00	0.00	0.00	0.00	0.00	0.00	8.21	0.16
86.00	300.00	0.00	0.00	1.36	1.71	0.96	0.76	0.37	1.50	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.16
100.00	443.00	0.00	0.00	1.25	1.69	0.92	0.75	0.47	1.74	0.00	0.00	0.00	0.00	0.00	0.00	7.80	0.16
113.00	585.00	0.00	0.00	1.15	1.66	0.91	0.74	0.57	1.93	0.00	0.00	0.00	0.00	0.00	0.00	7.63	0.16
126.00	728.00	0.00	0.00	1.06	1.63	0.90	0.74	0.67	2.09	0.00	0.00	0.00	0.00	0.00	0.00	7.48	0.16
140.00	871.00	0.00	0.00	0.99	1.60	0.91	0.75	0.77	2.21	0.00	0.00	0.00	0.00	0.00	0.00	7.35	0.16
153.00	1014.00	0.05	2.48	0.93	1.58	0.94	0.75	0.86	2.31	0.00	0.00	0.00	0.00	0.00	0.00	7.23	0.16
166.00	1157.00	0.13	6.58	0.88	1.55	0.97	0.77	0.96	2.38	0.00	0.00	0.00	0.00	0.00	0.00	7.13	0.16
180.00	1300.00	0.21	10.74	0.84	1.52	1.02	0.78	1.06	2.44	0.00	0.00	0.00	0.00	0.00	0.00	7.04	0.16

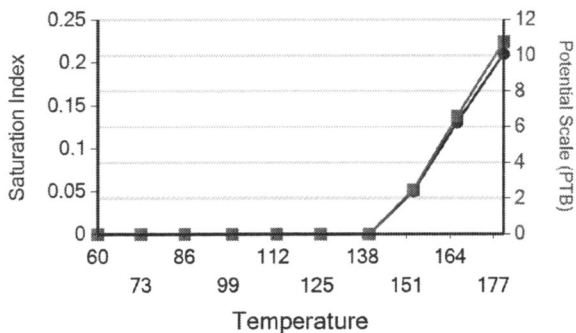
Water Analysis Report

Temp (°F)	PSI	Hemihydrate CaSO ₄ ·0.5H ₂ O		Anhydrate CaSO ₄		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
60.00	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
73.00	157.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
86.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	443.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
113.00	585.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
126.00	728.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.74
140.00	871.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	1.43
153.00	1014.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.62	1.92
166.00	1157.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.22	2.26
180.00	1300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.83	2.48

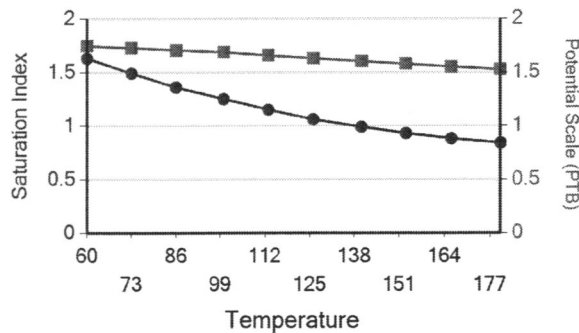
These scales have positive scaling potential under initial temperature and pressure: Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide

These scales have positive scaling potential under final temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Fe Silicate

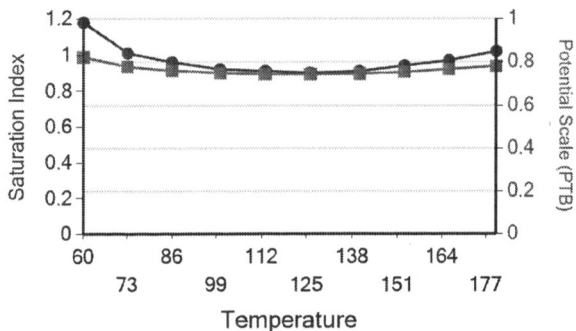
Calcium Carbonate



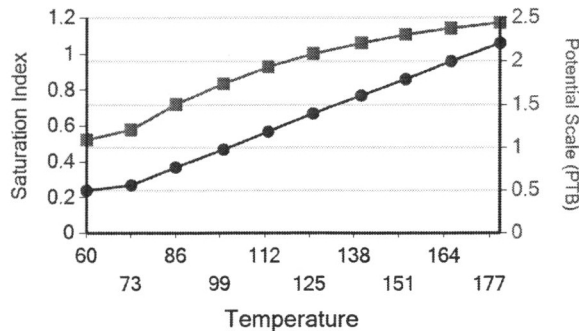
Barium Sulfate



Iron Sulfide

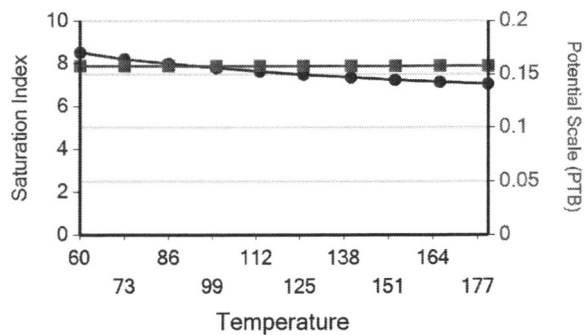


Iron Carbonate

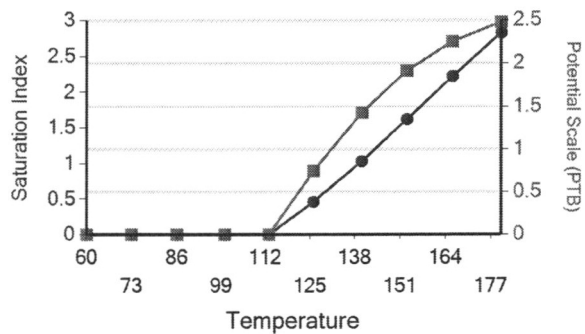


Water Analysis Report

Zinc Sulfide



Fe Silicate





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VIII

999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2466

SEP 22 1997

Ref: 8P2-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Ms. Kathy Turner
Geology/Petroleum Engineering Technician
Petroglyph Operating Company, Inc.
P. O. Box 1839
Hutchinson, KS 67504-1839

RE: UNDERGROUND INJECTION CONTROL (UIC)
Minor Permit Modification for
Ute Tribal 28-06 (UT-04380)
Antelope Creek Waterflood
EPA Area Permit No. UT2736-00000
Duchesne County, Utah

Dear Ms. Turner:

Thank you for your letter of August 16, 1997, and minor permit modification requests for the above-cited Underground Injection Control (UIC) area permit and well.

Your four (4) injection zones which were individually fracture treated and established an average fracture gradient results, have been reviewed and found to satisfactorily justify your requested permit modification.

With the receipt of these documents, your well is hereby modified to reflect the **increased injection pressure** as requested. Changes to the previous Minor Permit Modification of **May 28, 1997**, are as follows:

MODIFICATION VERSION:

- (2) **Maximum injection pressure (Pmax)** - the permittee submitted a list of four (4) individual zones, within the Ute Tribal #28-06, which were individually fraced and established an average fracture gradient (Fg) of 0.79 psi/ft. which was derived from instantaneous shut-in pressures (ISIP) from each zone. This Fg is acceptable to the Environmental Protection Agency (EPA), and a theoretical maximum allowable surface injection pressure (Pmax), for this well, may be calculated as shown below:



Printed on Recycled Paper



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VIII

999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2466

SEP 22 1997

Ref: 8P2-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Ms. Kathy Turner
Geology/Petroleum Engineering
Petroglyph Operating Company
P. O. Box 1839
Hutchinson, KS 67504-1839

Scan under
UT 20736 - 04380
modification - minor
mod Approved

RE

DL (UIC)
or
0)

00000

Dear Ms. Turner:

Thank you for your letter regarding permit modification requests for the above-cited Underground Injection Control (UIC) area permit and well.

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Printed on Recycled Paper

$$P_{max} = [F_g - 0.433 (S_g)] d$$

Where: P_{max} = Maximum surface injection pressure at wellhead

d = 4659' shallowest perforations

S_g = Specific gravity of injected water

$$P_{max} = [0.79 - .433 (1.00)] 4659$$

$$P_{max} = 1663 \text{ psig}$$

Until such time as the permittee demonstrates that a fracture gradient other than 0.79 psi/ft applies to the disposal zones of this newly converted well, the maximum allowable wellhead injection pressure (P_{max}) for this well will be 1663 psig.

IS MODIFIED TO READ:

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If you have any questions, please contact Mr. Chuck Williams at (303) 312-6625. Also, please direct the above requirements to Mr. Williams at the above letterhead address, citing MAIL CODE 8P2-W-GW. Thank you for your continued cooperation.

Sincerely,



Kerrigan G. Clough
Assistant Regional Administrator
Office of Pollution Prevention,
State and Tribal Assistance

cc: Mr. Ronald Wopsock, Chairman
Uintah & Ouray Business Committee
Ute Indian Tribe

Ms. Elaine Willie, Environmental Director
Ute Indian Tribe

Mr. Norman Cambridge
BIA - Uintah & Ouray Agency

Mr. Gil Hunt
State of Utah Natural Resources
Division of Oil, Gas, and Mining

Mr. Jerry Kenczka
BLM - Vernal District Office

Ave 2

Date: _____

MINOR PERMIT MODIFICATION -- ROUTING SLIP

	TO	INIT	DATE
1.	ORIGINATOR <i>Chuck Williams</i> 8P2-W-GW	<i>9/11/97</i>	<i>CEW</i>
2.	TECHNICAL REVIEW - <input type="checkbox"/> CT <input checked="" type="checkbox"/> PO 8P2-W-GW	<i>X</i>	<i>9/14/97</i>
3.	PROOF READ <i>Laura C.</i> 8P2-W-GW	<i>LC</i>	<i>9/11/97</i>
4.	SADIE HOSKIE - CONCUR <i>DAVIS</i> 8P TAP	<i>CEW</i>	<i>9/15/97</i>
5.	DAVE HOGLE - CONCUR 8P2-W-GW	<i>DEH</i>	<i>9/15/97</i>
6.	STEVE TUBER - CONCUR 8P2-W	<i>ST</i>	<i>9/15</i>
7.	KERRY CLOUGH - SIGNATURE 8P2	<i>KC</i>	<i>9/19/97</i>
8.	ORIGINATOR - COPIES 8P2-W-GW	<i>CEW</i>	<i>9/22/97</i>
9.	JACKIE LEE - TRACKING 8P2-W-GW	<i>JL</i>	<i>9/22/97</i>
10.	LAURA CLUTTS - MAIL	<i>LC</i>	<i>9/24/97</i>

WELL NAME: *Ute Tribal #28-06*

PERMIT NUMBER: *UT 2736-04380*

APPLICANT: *Petroglyph*

Contents of Package

Left Side:

UIC Minor Modification SOP
UIC Program Tracking
Operating Conditions Checklist
Cover Letter (Concurrence)
Cover Letter (Reading File)

Right Side:

Cover Letter (Sign)
Minor Modification (Sign)

COMMENTS: *Increase Max Inj. Press. - Minor Mod.*

Originator: *Chuck W.*

Ref: 8P2-W-GW

SEP 22 1997

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Ms. Kathy Turner
Geology/Petroleum Engineering Technician
Petroglyph Operating Company, Inc.
P. O. Box 1839
Hutchinson, KS 67504-1839

RE: UNDERGROUND INJECTION CONTROL (UIC)
Minor Permit Modification for
Ute Tribal 28-06 (UT-04380)
Antelope Creek Waterflood
EPA Area Permit No. UT2736-00000
Duchesne County, Utah

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CEW
8P2-W-GW
9/11/97

CEW
8P2-W-GW
9/11/97

CEW
9/15/97

P2-W
Turner
9-15-97

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State and Tribal Assistance

cc: Mr. Ronald Wopsock, Chairman
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Ms. Elaine Willie, Environmental Director
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Mr. Norman Cambridge
BIA - Uintah & Ouray Agency

Mr. Gil Hunt
State of Utah Natural Resources
Division of Oil, Gas, and Mining

Mr. Jerry Kenczka
BLM - Vernal District Office

FCD: September 11, 1997, Chuck W.,
F:\DATA\WP\PETROGLF\MRMD2806.MIP



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VIII

999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2466

SEP 22 1997

Ref: 8P2-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Ms. Kathy Turner
Geology/Petroleum Engineering Technician
Petroglyph Operating Company, Inc.
P. O. Box 1839
Hutchinson, KS 67504-1839

RE: UNDERGROUND INJECTION CONTROL (UIC)
Minor Permit Modification for
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Antelope Creek Waterflood
EPA Area Permit No. UT2736-00000
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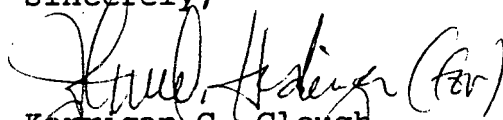
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Mr. Gil Hunt
State of Utah Natural Resources
Division of Oil, Gas, and Mining

Mr. Jerry Kenczka
BLM - Vernal District Office

9/24/97 CW 3136C

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

SEP 24 1997

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Ms. Kathy Turner
Geology/Petroleum Engineering
Technician
Petroglyph Operating Company, Inc.
P.O. Box 1839
Hutchinson, KS 67504-1839

4a. Article Number

P 164 014 367

4b. Service Type

- | | |
|---|---|
| <input type="checkbox"/> Registered | <input checked="" type="checkbox"/> Certified |
| <input type="checkbox"/> Express Mail | <input type="checkbox"/> Insured |
| <input type="checkbox"/> Return Receipt for Merchandise | <input type="checkbox"/> COD |

7. Date of Delivery

SEP 30 1997

8. Addressee's Address (Only if requested and fee is paid)

OCT 9 1997

5. Received By: (Print Name)

Gail Dennis

6. Signature: (Addressee or Agent)

X Gail Dennis

PS Form 3811, December 1994

Domestic Return Receipt

Thank you for using Return Receipt Service.

9/24/97 CW 3136C
P 164 014 367

US Postal Service

Receipt for Certified Mail

No Insurance Coverage Provided.

Do not use for International Mail (See reverse)

Sent to	
Ms. Kathy Turner	
Geology/Petroleum Engineering	
Technician	
Post Office, State, & ZIP Code	
Petroglyph Operating Company	
P.O. Box 1839 Inc.	
Hutchinson, KS 67504-1839	
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, April 1995

28-06



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VIII

999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2466

Ref: 8P2-W-GW

SEP 12 1997

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RETURN RECEIPT REQUESTED

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Geology/Petroleum Engineering Technician
Petroglyph Operating Company, Inc.
P. O. Box 1839
Hutchinson, KS 67504-1839

RE: UNDERGROUND INJECTION CONTROL (UIC)
Authorization to Inject
Ute Tribal #28-06 (UT04380)
Antelope Creek Waterflood
EPA Area Permit No. UT2736-00000
Duchesne County, Utah

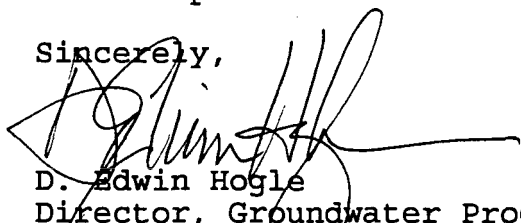
Dear Ms. Turner:

Thank you for the recently submitted information pertaining to the above-referenced area permit and well. The Well Rework Record, injection zone fluid pore pressure survey, fracture treatment reports showing average ISIP of 1710 psi, and the successfully run mechanical integrity test, with chart, on the Ute Tribal #28-06 (UT2736-04380) have been reviewed and approved. Petroglyph Operating Company, Inc, has complied with all of the pertinent permit conditions (Part II, Section C. 2.) for the Antelope Creek Waterflood Area Permit.

Pleased be advised that administrative approval has been granted for injection of Class II fluids into the above referenced well for enhanced recovery of oil and gas. Please also be aware of the monitoring, recordkeeping and reporting requirements described in Part II, Section D of the permit and that the current **maximum surface injection pressure (Pmax) is limited to 1710 psig**, as modified by UIC Minor Permit Modification dated September, 1997.

Upon receipt of this letter, the Compliance Officer, Mr. John Carson will then take over routine matters involving well operations, future correspondence, forms, and reports. Please direct all correspondence to the attention of Mr. Carson at the above letterhead (**MAIL CODE ENF-T**) or contact Mr. Carson at (303) 312-6203. Thank you for your continued cooperation.

Sincerely,


D. Edwin Hogle
Director, Groundwater Program
Office of Pollution Prevention
State and Tribal Assistance



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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VIII

999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2466

SEP 12 1997

Scan under UT20736 -

04380

*Authorization to Inject -
Final*

ng Technician
y, Inc.

: UNDERGROUND INJECTION CONTROL (UIC)
Authorization to Inject
Ute Tribal #28-06 (UT04380)
Antelope Creek Waterflood
EPA Area Permit No. UT2736-00000
Duchesne County, Utah

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cc: Mr. Ronald Wopsock, Chairman
 Uintah & Ouray Business Committee
 Ute Indian Tribe

Ms. Elaine Willie, Environmental Director
 Ute Indian Tribe

Mr. Norman Cambridge
 BIA - Uintah & Ouray Agency

Mr. Gil Hunt
 State of Utah Natural Resources
 Division of Oil, Gas, and Mining

Mr. Jerry Kenczka
 BLM - Vernal District Office

9/12/97 CW 3116C

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

SEP 12 1997

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Ms. Kathy Turner
 Geology/Petroleum Engineering
 Technician
 Petroglyph Operating Company, Inc.
 P.O. Box 1839
 Hutchinson, KS 67504-1839

4a. Article Number

P 164 014 347

4b. Service Type

- ☐ Registered ☒ Certified
☐ Express Mail ☐ Insured
☐ Return Receipt for Merchandise ☐ COD

7. Date of Delivery

SEP 15 1997

5. Received By: (Print Name)

Gail Dennis

8. Addressee's Address (Only if requested and fee is paid)

SEP 18 1997

6. Signature: (Addressee or Agent)

X Gail Dennis

PS Form 3811, December 1994

Domestic Return Receipt

or using Return Receipt Service.

9/12/97 CW 3116C
 P 164 014 347

US Postal Service

Receipt for Certified Mail

No Insurance Coverage Provided.

Do not use for International Mail (See reverse)

Sent to	
Ms. Kathy Turner	
Street & Number	
Geology/Petroleum Engineering	
Post Office, State, & ZIP Code	
Technician	
Petroglyph Operating Company,	
P.O. Box 1839	
Inc.	
Hutchinson, KS 67504-1839	
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, April 1995

CONCURRENCE COPY

Ref: 8P2-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Ms. Kathy Turner
Geology/Petroleum Engineering Technician
Petroglyph Operating Company, Inc.
P. O. Box 1839
Hutchinson, KS 67504-1839

RE: UNDERGROUND INJECTION CONTROL (UIC)
Authorization to Inject
Ute Tribal #28-06 (UT04380)
Antelope Creek Waterflood
EPA Area Permit No. UT2736-00000
Duchesne County, Utah

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D. Edwin Hogle
Director, Groundwater Program
Office of Pollution Prevention
State and Tribal Assistance

CEW
8P2-W-GW
9/11/97
OK
8P2-W-GW
9/11/97

cc: Mr. Ronald Wopsock, Chairman
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Ute Indian Tribe

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BIA - Uintah & Ouray Agency

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State of Utah Natural Resources
Division of Oil, Gas, and Mining

Mr. Jerry Kenczka
BLM - Vernal District Office

FCD: September 12, 1997, Chuck W., F:\DATA\WP\PETROGLF\AUT-IN28.06